

Demand for regional action is strong in all OECD countries

• Regions and globalisation:

- Changes in the way firms decide what they produce and where
- ...leading to an evolution of the relative "value" of regional assets

Background of societal concerns:

- OECD Ministerial meeting conclusions Governments need to communicate better the threats and opportunities of globalisation
- Views of EU citizens (Eurobarometer): globalisation = delocalisation

Perception from the regions:

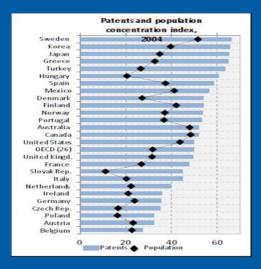
- Always someone, somewhere that can do what we do, but cheaper
- Is it better to be specialised or not? How can regions move up the value chain and anchor their key industries?

Common answer is often "be more innovative"...

Policy streams are converging: regions are where innovation happens...

Policy Old New			
Regional	Redistribution to lagging regions; exogenous drivers	Building competitive regions by building local capacity; innovation the key driver	
Science and Technology	Narrow definition of innovation; single sector projects in basic research	Broader definition; Collaborative and multi- sectoral research; focus on business applications	
Industry and Enterprise	Subsidies to firms; national champions	New or hard to reach innovation – services, public sector, eco-inno and global challenges	
And now	Economy and Fina moving out of	nce — innovation's role in frecession	

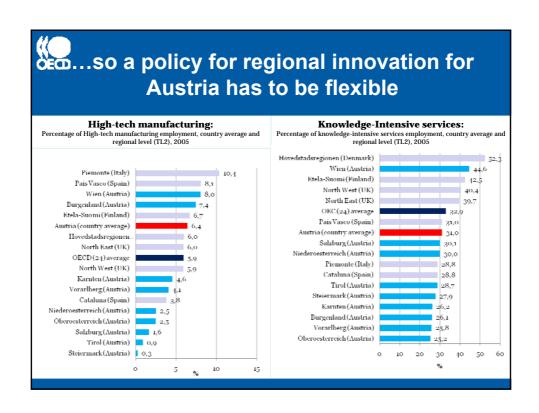
regional policies can support



Evidence of spatial dimension:

- •(Over)concentration of innovation inputs and outputs in particular places
- Strong clustering and specialisation at regional level Explained by:
- •Innovative milieu-type arguments (knowledge flows)
- Practical preference for working with accessible partners
- *Many other things......*

Austrian regions have very different strengths and specialisations.... (Comparison of Austrian regions with regions recently reviewed by OECD) Research and development expenditures: **Patents:** $PCT\ patent\ applications\ per\ million\ population,\ 2005$ Hovedstadsregionen (Denmark) Etela-Suomi (Finland) 330 Etela-Suomi (Finland) Vorarlberg (Austria) Wien (Austria) 172 Wien (Austria) Steiermark(Austria) Steiermark (Austria) 157 Austria (country average) Oberoesterreich (Austria) 140 Austria (country average) Karnten (Austria) Tirol (Austria) Tirol (Austria) OECD total 108 North West (UK) Salzburg (Austria) Oberoesterreich (Austria) Niederoesterreich (Austria) Piemonte (Italy) North West (UK) Pais Vasco (Spain) Karnten (Austria) Cataluna (Spain) Piemonte (Italy) Vorarlberg (Austria) North East (UK) Salzburg (Austria) Cataluna (Spain) 1,0 Niederoesterreich (Austria) Burgenland (Austria) 0,9 Pais Vasco (Spain) 37 North East (UK) 6.8 Burgenland (Austria) PCT/pop



But regions vary greatly in how they innovate: indicators capture only some of this

Patents per million, class	Average expenditure on R&D as % of GDP	R&D shares by sector: Public – Private (%)	Average employment in high technology sectors (%)
0-10	0.57	60 - 40	23.3
10-50	1.57	50 - 50	28.5
50-250	1.63	40 - 60	37.5
250 +	2.41	25 - 75	43.2



...and regions less engaged in R&Dbased innovation can still grow

Patents per million, class	As % of all regions	
0-10	33.43 (of which 46% are rural regions)	
10-50	15.5	
50-250	25.4	
250 +	25.7	

In these regions:

- Public R&D as a percentage of regional GDP is low
- Firms engage less in R&D (less than 50% of innovative firms engage in R&D)
- Fewer jobs are in high technology sectors

Yet this group have above average GDP growth...Good at absorbing, entrepreneurial, non-tech innovators



The scope for regional intervention is becoming clearer...

Category	National policy	Regional policies	
Area of specialisation	"anonymous" framework of regulations and institutions	collaboration among identifiable actors; importance of proximity relationships	
Types of innovation support	basic research, applied research	close to the market, assisting firms to translate knowledge into marketed products and services	
Strategic approach	overall policy focus for national innovation system	building regional consensus based on needs assessment; addressing specific gaps (e.g., alternative institutions)	
Rationale for intervention	market failure	market "opportunities"	



...with some general models, but no clear best practice...

	Federal, decentralised	Centralised	Small country
Innovation environment	\leftrightarrow	↑	↑
Innovation poles, clusters and science parks	→	\leftrightarrow	\leftrightarrow
R&D, pure research/applied	\leftrightarrow	↑	↑
Enterprise support for innovative firms	\	\leftrightarrow	\leftrightarrow

 \leftrightarrow = both central and regional levels involved \downarrow = essentially a regional responsibility; \uparrow = essentially a regional responsibility

Source: Based on Technopolis et al. (2006



OECD research agenda

- A series of **Regional Innovation Reviews** (e.g., north of England, Piedmont, Catalonia...)
- Contributing to the OECD Innovation
 Strategy the regional dimension
- Collaboration with OECD member countries, EU and IADB on policy analysis